OPERATOR TRAINING SEMINAR CHICAGO, ILLINOIS, USA

(ALL TIMES CDT)

TUESDAY, OCTOBER 11TH, 2022

7:30 AM	BREAKFAST (PROVIDED) AND REGISTRATION
8:00 AM	INTRODUCTION TO PSRI AND ITS TECHNICAL PROGRAMS
8:15 AM	INTRODUCTION AND OVERVIEW
	1. INTRODUCTION, TERMINOLOGY, AND PARTICULATE PROPERTIES
	2. FLUIDIZATION REGIMES AND TRANSITIONS
10:00 AM	BREAK
10:15 AM	LABORATORY 1 – PARTICLE CHARACTERIZATION
	 PARTICLE SAMPLING AND RIFFLING PARTICLE SIZE ANALYSIS USING SYMPATEC HALOS 3 LOOSE BULK DENSITIES AND ANGLE OF REPOSE MEASUREMENT MEASUREMENT OF LOOSE AND TAPPED BULK DENSITES MICROSCOPE IMAGES FLOW VISUALIZATION OF COLORED BEADS IN 12-IN DIA SEMICIRCULAR FLUIDIZED BED
12:00 PM	LUNCH (PROVIDED)
12:45 PM	INTRODUCTION AND OVERVIEW (CONTINED)
	3. HYDRODYNAMICS OF FLUIDIZED BEDS
1:15 PM	GAS DISTRIBUTORS (GRIDS)
3:00 PM	BREAK
3:15 PM	LABORATORY 2 – FLUIDIZED BED OPERATION IN CLEAR FLUIDIZED BEDS
	 FLUIDIZATION OF GROUP A SOLIDS (FCC CATALYST) PROPER BED START-UP AND SHUTDOWN CYCLONE/DIPLEG VISUALIZATION
5:00 PM	ADJOURN

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WEDNESDAY, OCTOBER 12TH, 2022

7:30 AM	BREAKFAST (PROVIDED)
8:00 AM	OVERVIEW OF INDUSTRIAL APPLICATIONS
9:00 AM	ENTRAINMENT
10:00 AM	BREAK
10:15 AM	CYCLONE DESIGN AND OPERATION
10:45 AM	LABORATORY 3 - FLUIDIZED-BED OPERATION IN CLEAR FLUIDIZED BEDS
	 FLUIDIZATION OF GROUP B SOLIDS PROPER BED START-UP AND SHUTDOWN CYCLONE/DIPLEG VISUALIZATION
12:00 PM	LUNCH (PROVIDED)
1:00 PM	CYCLONE DESIGN AND OPERATION (CONTINED)
3:00 PM	BREAK
3:15 PM	LABORATORY 4 – VIEW OPERATION OF 2.75-FT AND 5-FT DIAMETER SEMICIRCULAR FLUIDIZED BEDS
	 OPERATION WITH FCC CATALYST CONICAL DISTRIBUTORS PROPER START BUBBLNG AND TURBULENT REGIMES

VISUALIZATION OF CYCLONE/DIPLEG OPERATION

5:00 PM ADJOURN

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THURSDAY, OCTOBER 13TH, 2022

7:30 AM BREAKFAST (PROVIDED)

8:00 AM STANDPIPES

10:00 AM BREAK

10:15 AM LABORATORY 5 – VIEW OPERATION OF VERTICAL STANDPIPE UNIT WITH FCC CATALYST

• EFFECT OF AERATION (OVER AND UNDER AERATION)

• HOW TO START-UP

• PRESSURE BUILD

12:00 PM LUNCH

1:00 PM PNEUMATIC CONVEYING AND RISERS

2:45 PM BREAK

3:00 PM LABORATORY 6 - VIEW OPERATION OF 8-IN DIAMETER CIRCULATING FLUIDIZED BED UNIT (RISER)

HOW TO START-UP A CIRCULATING FLUIDIZED BED

• RISER FLOW VISUALIZATION

VIEW OPERATION OF CYCLONE(S)

• VIEW OPERATION OF PRIMARY AND SECONDARY CYCLONE DIPLEGS

5:00 PM ADJOURN

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